

Appl. No. 10/616,294
Amdt. dated December 22, 2005
Reply to Office action of September 22, 2005

Amendments to the Claims:

Please amend the claims as indicated.

1. (Original) A system to vary dimensions of a template having opposed surfaces with a side extending therebetween defining a perimeter surface, said system comprising:

first and second bodies, each of which has a contact member, defining a pair contact members, disposed opposite to each other and spaced apart a distance, with said first body including an actuator arm, and a chamber disposed adjacent to said actuator arm, with one of said pair of contact members being coupled to said actuator arm to move in response to movement of said actuator arm; and

a bladder positioned within said chamber and having a variable volume, with said actuator arm coupled to said first body to move in response to variations of said volume to vary said distance.

2. (Original) The system as recited in claim 1 wherein one of said pair of contact members is formed from a compliant material.

3. (Currently Amended) The system as recited in 1 claim wherein said first body further includes an additional contact member, spaced apart an additional distance from said one of said pair of contact members, and an additional actuator arm, with said additional contact member being coupled to said additional actuator arm, with said bladder disposed within said chamber so that both said actuator arm and said additional actuator arm move in

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response to said variations of said volume to vary both said distance and said additional distance.

4. (Original) The system as recited in claim 1 further including an additional bladder, having an additional volume associated therewith, with said body further including an additional contact member, spaced apart from said one of said pair of contact members an additional distance, and an additional actuator arm, with said additional contact member being coupled to said additional actuator arm, with said additional bladder being disposed within said chamber so that said additional actuator arm moves in response to said variations of said additional volume to vary said additional distance independent of variations in said distance.

5. (Original) The system as recited in claim 1 wherein said actuator arm includes an actuator surface which said bladder contacts and said contact member includes a contact surface adapted to contacts said perimeter surface, with an area associated with said contact surface being less than an area associated with said actuator surface.

6. (Original) The system as recited in claim 1 wherein said actuator arm attached to said first body to reciprocate about an axis that lies in a plane spaced-apart from said template.

7. (Original) The system as recited in claim 1 further including a compression ring encompassing an area and having a circumferential surface facing said area, with said first and second bodies being coupled to said circumferential surface and opposite one another.

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8. (Original) The system as recited in claim 1 wherein said bladder is positioned within said chamber to increase said distance in response to said volume increasing.

9. (Original) The system as recited in claim 1 wherein said bladder is positioned within said chamber to decrease said volume in response to said volume increasing.

10. (Original) The system as recited in claim 1 further including an additional bladder having an additional volume associated therewith, with said bladder and said additional bladder defining a bladder system, with said bladder being positioned within said chamber to increase said distance in response to said volume increasing and said additional bladder being positioned within said chamber to decrease said distance in response to said additional volume increasing.

11. (Original) A system to vary dimensions of a template having opposed surfaces with a side extending therebetween defining a perimeter surface, said system comprising:

first and second pairs of bodies each of which includes a contact member, with the contact members associated with said first pair of bodies defining a first pair of contact members and the contact members associated with said second pair of bodies defining a second pair of contact members, with the contact members of said first pair being disposed opposite each other and the contact members of said second pair being disposed opposite each other, with one body of each of said first and second pairs of bodies including an actuator arm, and a chamber disposed adjacent

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to said actuator arm, with one of said pair of contact members being coupled to said actuator arm to move in response to movement of said actuator arm; and a bladder positioned within said chamber and having a variable volume, with said actuator arm coupled to said first body to move in response to variations of said volume to vary said distance.

12. (Original) The system as recited in claim 11 wherein said one body further includes an additional contact member, spaced apart an additional distance from said one of said pair of contact members, and an additional actuator arm, with said additional contact member being coupled to said additional actuator arm, with said bladder disposed within said chamber so that both said actuator arm and said additional actuator arm move in response to said variations of said volume to vary both said distance and said additional distance.

13. (Original) The system as recited in claim 12 further including an additional bladder, having an additional volume associated therewith, to contact said additional actuator arm, with said additional bladder being disposed within said chamber so that said additional actuator arm moves in response to said variations of said additional volume to vary said additional distance independent of variations in said distance.

14. (Original) The system as recited in claim 13 wherein one of said contact members of each of said first and second pairs is formed from compliant material.

15. (Original) The system as recited in claim 11 wherein said actuator arm includes an actuator surface which

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said bladder contacts and said contact member includes a contact surface adapted to contacts said perimeter surface, with an area associated with said contact surface being less than an area associated with said actuator surface.

16. (Original) The system as recited in claim 11 wherein said actuator arm attached to said first body to reciprocate about an axis that lies in a plane spaced-apart from said template.

17. (Original) The system as recited in claim 11 further including a compression ring encompassing an area and having a circumferential surface facing said area, said first and second pairs of bodies being coupled to said circumferential surface, with the bodies associated with said first pair being positioned opposite one another, with the bodies associated with said first pair being positioned opposite one another.

18. (Currently Amended) A system to varying dimensions of a template having opposed surfaces with a side extending therebetween defining a perimeter surface, said system comprising:

a compression device including a pair of spaced-apart contact members, to compress said perimeter surface between said pair of spaced-apart contact members, with one of said pair of spaced-apart contact members being formed from a material to comply with a shape of said perimeter surface, wherein said compression device further includes first and second bodies, each of which has a contact member, defining a pair contact members, disposed opposite to each other and spaced apart a distance, with said first body including an actuator arm, and a chamber disposed adjacent

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to said actuator arm, with one of said pair of contact members being coupled to said actuator arm to move in response to movement of said actuator arm and a bladder positioned within said chamber and having a variable volume, with said actuator arm coupled to said first body to move in response to variations of said volume to vary said distance.

19. (Original) The system as recited in claim 18 wherein said compression device further includes a generator to create a force to cause said perimeter surface to be compressed between said contact members and a force amplifier to increase an amount of said force per unit area on said one of said pair of contact members.

20. CANCELLED

21. (Original) The system as recited in claim 20 wherein said actuator arm includes an actuator surface which said bladder contacts and said contact member includes a contact surface adapted to contact said perimeter surface, with an area associated with said contact surface being less than an area associated with said actuator surface.

22. (Original) The system as recited in claim 20 wherein said actuator arm attached to said first body to reciprocate about an axis that lies in a plane spaced-apart from said template.

23. (Original) The system as recited in claim 20 further including a compression ring encompassing an area and having a circumferential surface facing said area, with said first and second bodies being coupled to said circumferential surface and opposite one another.